PATENT COOPERATION TREATY PCT/AU03/00660

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 7826513/AJC	le reference FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.				
International application No. PCT/AU03/00660	International filing date (day/month/year) 30 May 2003	(Earliest) Priority Date (day/month/year) 31 May 2002			
Applicant APOLLO LIFE SCIENCES P					
Article 18. A copy is being transmitted to the This international search report consists of a		is transmitted to the applicant according to			
a. With regard to the language, the which it was filed, unless other	e international search was carried out on the basis owise indicated under this item.				
the international search w (Rule 23.1(b)).	as carried out on the basis of a translation of the in	ternational application furnished to this Authority			
b. With regard to any nucleotide a carried out on the basis of the s	and/or amino acid sequence disclosed in the internequence listing:	ational application, the international search was			
	onal application in written form.				
filed together with the int	ernational application in computer readable form.				
furnished subsequently to	this Authority in written form.				
furnished subsequently to	this Authority in computer readable form.				
	the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
	ormation recorded in computer readable form is ide	ntical to the written sequence listing has been			
2. X Certain claims were found un	searchable (See Box I).				
3. Unity of invention is lacking (See Box II).				
4. With regard to the title,	the text is approved as submitted by the applicant	t.			
X	the text has been established by this Authority to apparatus therefore.	read as follows: Electrofusion of cells and			
5. With regard to the abstract,	the text is approved as submitted by the applican	t			
X	the text has been established, according to Rule 3. The applicant may, within one month from the dissubmit comments to this Authority.	88.2(b), by this Authority as it appears in Box III. ate of mailing of this international search report,			
6. The figure of the drawings to be published with the abstract is Figure No.					
	as suggested by the applicant.	None of the figures			
	because the applicant failed to suggest a figure				
. 2	because this figure better characterizes the invent	tion			



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Box I		Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This inte	This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1.	X	Claims Nos: 48-50 (in part)			
	<u></u>	because they relate to subject matter not required to be searched by this Authority, namely:			
		The identified claims are directed to computer programs (see Rule 39(vi)).			
2.		Claims Nos: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:			
3.		Claims Nos:			
		because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)			
Вох П		Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
This Inte	rnatio	nal Searching Authority found multiple inventions in this international application, as follows:			
1.		As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims			
2.		As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.			
3.		As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
4.		No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:			
Remark (on Pr	otest The additional search fees were accompanied by the applicant's protest.			
					
		No protest accompanied the payment of additional search fees.			

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Α.	CLASSIFICATION OF SUBJECT MATT	ER .			
Int. Cl. 7:	C12M 1/42; C12N 5/12, 5/16, 5/28, 13/00; A61K 48/00, 35/54				
According to	International Patent Classification (IPC) or to	both national classification and IPC			
В.	FIELDS SEARCHED				
Minimum doo	cumentation searched (classification system followed	by classification symbols)			
Documentation	on searched other than minimum documentation to the	e extent that such documents are included in the fields search	hed		
Medline, C	a base consulted during the international search (nar hemical Abstracts, WPAT: Stem cell, plur ical, electrofusion, dielectrophoresis	me of data base and, where practicable, search terms used) ipotential, progenitor, hybrid, hybridoma, fused, fi	usate, fusion,		
C.	DOCUMENTS CONSIDERED TO BE RELEV	ANT .			
Category*	egory* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.				
x	Scott-Taylor et al. Human tumour and dendritic cell hybrids generated by electrofusion: potential for cancer vaccines. Biochimica et Biophysica Acta 1500 (2000) 265-279. See the whole document, particularly the abstract and section 2.2 starting on page 267 - 43, 45-71				
x	Krivokharchenko et al. In vitro formation of tetraploid rat blastocysts after fusion of two-cell embryos. Molecular Reproduction and Development 61:460-465 (2002). See the whole document, particularly the abstract and fusion of two-cell rat embryos on page 461.				
х	Iwasaki et al. Production of live calves derived from embryonic stem-like cells aggregated with tetraploid embryos. Biology of Reproduction 62, 470-475 (2000). X See the whole document, particularly the abstract, and production of tetraploid embryos on page 471.				
X	Further documents are listed in the continu	nation of Box C X See patent family anno	×		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" earlier application or patent but published on or after the international filing date or priority date and not in conflict with the application but cited to understand the princip or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step					
when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious					
reason (as specified) "O" document referring to an oral disclosure, use, "&" document member of the same patent family exhibition or other means					
"P" document published prior to the international filing date but later than the priority date claimed					
Date of the actual completion of the international search Date of mailing of the international search report					
28 July 2003 0 4 AUG 2003					
Name and mailing address of the ISA/AU Authorized officer					
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E mail address not@bouttrilia gov.av. G.J. MCNEICE					
	E-mail address: pct@lpaustralia.gov.au Facsimile No. (02) 6285 3929. Telephone No: (02) 6283 2055				
	Telephone No: (U2) 0283 3929.				





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	TCI/ACO3/0	
C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
х	US 5589047 A (Coster et al.) 31 December 1996 See the whole document, particularly column 7 line 49 - column 16 line 4, claims 17- 24.	1-5, 8-24, 27 43, 45-71
x	EP 0338667 A1 (Follet et al.) 25 October 1989 See the whole document.	1-5, 8-24, 27 43, 45-71
x	WO 89/03426 A2 (Baylor College of Medicine) 20 April 1989 See the whole document, particularly the abstract, page 5 line 23 - page 8 line 24, page 13 line 29 - page 15 line 5, and examples IV and V.	1-5, 8-24, 2° 43, 45-71
x	WO 98/56893 A1 (Walters et al.) 17 December 1998 See the whole document, particularly the abstract, page 20 line 26 - page 32 line 30, and figures 32-36.	1-71
x ·	WO 01/09297 A1 (A+ Science Invest) 8 February 2001 See the whole document, particularly the abstract, page 15 line 21 - page 16 line 14, Example 1, and figures 1-5.	1-5, 8-24, 2 43, 45-71
x .	WO 02/10346 A2 (University of Ulster) 7 February 2002 See the whole document, particularly page 4 line 4 - page 8 line 3, page 22 line 16 - page 24 line 31.	1-5, 8-24, 2 43, 45-71
x	WO 02/32378 A2 (Ohno) 25 April 2002 See the whole document, particularly the abstract, page 5 line 2 - page 8 line 5, page 28 lines 7-24.	1-5, 8-24, 2' 43, 45-71
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Pate	nt Family Member		
US	5589047	AU	25620/92	BR	9206463	EP	607178
		MX	9205086	NZ	244216	wo	9305166
EP	338667	JР	2009365	US	4959321		
wo	8903426	ΑU	27879/89	CA	1340200	EP	386086
		EP	710718	US	4822470	US	4970154
		US	5304486				
wo	9856893	CN	1234069	EP	968275	US	6117660
wo	200109297	AU	200061951	CA	2380379	EP	1200569
wo	200210346	ΑU	200175752	CA	2418072	EP	1305410
WO	200232378	AU	200225990	US	2002168351		
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